

In the Claims:

This listing of claims lists all of the claims in this application, and have been previously presented in the application:

1. (PREVIOUSLY PRESENTED) A method for casting metal strip using a casting roll, a metal delivery system to deliver molten metal onto the casting surface of the casting roll and a roll brushing apparatus to clean the casting roll surface, the method comprising the steps of:

rotating a main brush mounted to extend across the casting surface of the casting roll to tangentially engage-the peripheral longitudinal casting roll surface of the casting roll;

rotating an elongate rotary sweeper brush mounted to extend across the casting surface of the casting roll to tangentially engage the casting roll surface of the casting roll in advance of the position of the main brush relative to the casting surface of the casting roll;

driving the rotation of the sweeper brush in a direction opposite to the surface movement of the casting roll;

moving the sweeper brush independently of the main brush into engagement with the casting roll surface of the casting roll near the beginning and end of each casting run and to disengage from the casting roll during normal casting operation; and

moving-the main brush into engagement with the casting roll surface at least during normal casting operation.

2. (PREVIOUSLY PRESENTED) A method as claimed in claim 1, wherein a sweeper brush is rotatably mounted on a brush mounting structure connected to a sweeper brush actuator.

3. (PREVIOUSLY PRESENTED) A method as claimed in claim 2, wherein the sweeper brush actuator and the main brush actuator comprise fluid actuatable cylinder devices.

4. (PREVIOUSLY PRESENTED) A method as claimed in claim 2, further comprising an elongate scraper mounted on a brush mounting structure to move with the sweeper brush and engaging the sweeper brush so as to scrape swept material from the sweeper brush.

5. (PREVIOUSLY PRESENTED) A method as claimed in claim 4, wherein the sweeper brush comprises a central brush body and a plurality of bristles projecting radially outwardly from the central body and forming collectively a substantially cylindrical

shape and the scraper comprises an elongate scraper blade projecting into the bristles of the brush.

6. (PREVIOUSLY PRESENTED) A method as claimed in claim 5, wherein the bristles are formed of steel wire.

7. (PREVIOUSLY PRESENTED) A method as claimed in claim 6, wherein the scraper blade is made of hardened steel.

8. (PREVIOUSLY PRESENTED) A method as claimed in claim 1, wherein the main brush is an elongate rotary brush and the main brush mounting frame carries main brush drive operable to rotate the main brush.

9. (PREVIOUSLY PRESENTED) A method as claimed in claim 1, further comprising a main brush drive operable to rotate the sweeper brush in a direction opposite to the movement of the casting surface of the casting roll.

10. (PREVIOUSLY PRESENTED) A method as claimed in claim 1, wherein the sweeper brush is rotatably mounted on a sweeper brush mounting frame connected to the brush actuator and the sweeper brush drive is mounted on the brush mounting frame to move with the sweeper brush.

11. (PREVIOUSLY PRESENTED) A method as claimed in claim 1, wherein the main brush mounting frame is moveable toward and away from the roll surface to move both the main brush and the sweeper brush between retracted and operative positions.

12. (PREVIOUSLY PRESENTED) A method of casting metal strip using a casting roll metal delivery system to deliver molten metal onto the surface of the casting roll and roll cleaning brush apparatus to clean the casting roll surface, the method comprising the steps of: (i) rotating a main brushing device extending across the roll capable of tangentially engaging the peripheral longitudinal roll surface, (ii) rotating a second sweeper brushing device extending across the roll to engage the roll in advance of the main brushing device, the sweeper brushing device comprises an elongate rotatably driven barrel brush extending across the roll surface of the casting roll (iii) engaging the casting roll in advance of the position of engagement of the main brushing device with the casting roll independent of the engagement of the main brushing device with the casting roll, (iv) driving the sweeper brush to rotate in a direction opposite to the surface movement of the casting roll, (v) rotating the main brushing device mounted on a mounting frame about its longitudinal axis to engage with the casting roll at least during production of a casting run, (vi) moving the main brush into engagement with the casting roll during production of the casting run, and (vii) separately moving the sweeper brush toward the casting roll at the start and end of the casting run and away from the casting roll during the production part of the casting run.

13. (PREVIOUSLY PRESENTED) A method as claimed in claim 12, wherein a main brush actuator and a sweeper brush actuators are provided comprising fluid actuatable cylinder devices.

14. (PREVIOUSLY PRESENTED) A method as claimed in claim 12, further comprising an elongate scraper extending along the barrel brush and engaging the barrel brush so as to scrape swept material from the barrel brush.

15. (PREVIOUSLY PRESENTED) A method as claimed in claim 14, wherein the scraper is fixed to a mounting frame for the sweeper brush.

16. (PREVIOUSLY PRESENTED) A method as claimed in claim 12, wherein the sweeper brush comprises a central brush body and a plurality of bristles projecting radially outwardly from the central body and forming collectively a substitute cylindrical shape.

17. (PREVIOUSLY PRESENTED) A method as claimed in claim 16, wherein the bristles are formed of steel wire.

18. (PREVIOUSLY PRESENTED) A method as claimed in claim 16, wherein the scraper comprises an elongate scraper blade projecting into the bristle canopy of the barrel brush.

19. (PREVIOUSLY PRESENTED) A method as claimed in claim 18, wherein the scraper blade has a sharp leading edge.